

20020610.ba v03_n348.bam.20020610

>From ???@??? Mon Jun 10 09:32:45 2002 -0500
Message-Id: <200206101432.g5AEWQlc019014@sco.theporch.com>
Date: Mon, 10 Jun 2002 09:31:59 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3348

BOATANCHORS Digest 3348

Topics covered in this issue include:

- 1) Read This? Wanted: 75A4 Manual Copy
by Merz Donald S <merz.ds@mellon.com>
- 2) Navy Radio Compass Receivers FS
by "Joe Watson" <wwatson@mmcable.com>
- 3) Loudeboomer schematic and manual
by K6KWQ@aol.com
- 4) Re: Read This? Wanted: 75A4 Manual Copy
by "Larry Saletzki" <wa9vrh@ocslink.com>
- 5) NC-140 Schematic
by RAY <w2kbr@toad.net>
- 6) Re: Earlier Post
by "Joe Watson" <wwatson@mmcable.com>
- 7) RE: Read This? Wanted: 75A4 Manual Copy
by "Shirli Sieb" <sieb@sympatico.ca>
- 8) Projects on Workbench
by Scott Robinson <spr@earthlink.net>
- 9) S-72 handle again
by "David L. Thompson" <thompson@mindspring.com>
- 10) scope repair needed
by Bob Roehrig <broehrig@aurora.edu>
- 11) Boatanchor potentiometer
by Chuck McGregor <cbmcg@attbi.com>
- 12) Help and Advice on Stoddard NM-5A Analyzer
by Liles and Naomi Garcia <landn@easystreet.com>
- 13) Wanted: Mackay 128-A manual/schematic
by "Tom Smith" <tsmith@hal-pc.org>
- 14) Long-term BA storage: how not to do it
by Edward J Knobloch <k4pf@juno.com>
- 15) S-72 Thanks
by "David L. Thompson" <thompson@mindspring.com>
- 16) Stoddart Power Cable
by Charles T Preston <k4ljh@juno.com>
- 17) ADMINISTRIVIA: No More Reposts
by listown@nanniandjack.com (Mail List Owner)
- 18) NC-140

by RAY <w2kbr@bayserve.net>
19) Re: Do you Have Any Projects on the Bench?
by John Kolb <jlkolb@cts.com>
20) RE: Do you Have Any Projects on the Bench?
by John Kolb <jlkolb@cts.com>
21) RE: on Microphones
by "Freeberg, Scott (STP)" <Scott.Freeberg@guidant.com>

Message-ID: <20020607193842.19907.qmail@mellon.com>
From: Merz Donald S <merz.ds@mellon.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Read This? Wanted: 75A4 Manual Copy
Date: Fri, 7 Jun 2002 15:38:08 -0400
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="----_=_NextPart_001_01C20E5A.D9AF3920"

This message is in MIME format. Since your mail reader does not understand this format, some or all of this message may not be legible.

-----_=_NextPart_001_01C20E5A.D9AF3920
Content-Type: text/plain;
charset="iso-8859-1"

Jack Sez my postings will still go through--they will just be ugly. Is he right? Can you read this?

WANTED: 75A4 Manual copy. Pay cash or trade copy of a manual that you need.

73, Don Merz, N3RHT

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-----_=_NextPart_001_01C20E5A.D9AF3920
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
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* * * * *

-----=_NextPart_001_01C20E5A.D9AF3920--

Message-ID: <000a01c20e76\$7d404910\$6900a8c0@radiatoroom>
From: "Joe Watson" <wwatson@mmcable.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Navy Radio Compass Receivers FS
Date: Fri, 7 Jun 2002 17:55:58 -0500
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_000_0007_01C20E4C.941DF5D0"

This is a multi-part message in MIME format.

-----=_NextPart_000_0007_01C20E4C.941DF5D0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I have the following items for sale:

- (1) DZ-2 Direction Finding Receiver CEX 46152
covers 15-70 KC and 100 to 1750 KC. Panel is clean,=20
no dents, untested. \$50 plus shipping.
- (2) RAL-8 Receiver and Power Supply
CMX 46156-A Radio Receiver
CMX 20131-A Rectifier Power Unit. Panel is okay=20
except for broken dial cover glass (easily relaced) no
dents, untested. \$75 plus shipping. Note: This is big=20
and heavy, best if someone could pick it up in =20
Oklahoma City. Or, I could deliver to Nashville or
within the next 3-5 weeks.

Also have a Knight Wideband 5" scope, untested, with some redone panel =
lettering. \$10 plus shipping.

Joe Watson
W5WBR

=20

-----=_NextPart_000_0007_01C20E4C.941DF5D0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

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* * * * *
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* * * * *
```

-----=_NextPart_000_0007_01C20E4C.941DF5D0--

From: K6KWQ@aol.com
Message-ID: <29.284a5e96.2a329443@aol.com>
Date: Fri, 7 Jun 2002 18:57:07 EDT
Subject: Loudeboomer schematic and manual
To: Old Tube Radios <boatanchors@theporch.com>
CC: amps@contesting.com
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_29.284a5e96.2a329443_boundary"

--part1_29.284a5e96.2a329443_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I need a schematic at least and a manuale for a Loudeboomer mark II amplifier. I believe may be the same as Hallicrafter HT45?. Will pay reasonable copy cost or what ever.

"Real radios can kill you, 12 volt radios are for sisseys"

--part1_29.284a5e96.2a329443_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
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```

--part1_29.284a5e96.2a329443_boundary--

Message-ID: <000a01c20e81\$41e10070\$580b1aa5@kws1>
From: "Larry Saletzki" <wa9vrh@ocslink.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Read This? Wanted: 75A4 Manual Copy
Date: Fri, 7 Jun 2002 19:13:02 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Don, You can go to the Collins Collectors Association website
www.collinsradio.org and look for the manuals section or:
<http://www.collinsradio.com/html/manuals.html> There is a complete 75A-4
manual plus a number of others available for anyone to download. If you have
any problems downloading it please let me know. 73's
Larry WA9VRH
Collins Collectors Association Archive Manager
VP, Collins Collectors Association

----- Original Message -----
From: "Merz Donald S" <merz.ds@mellon.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Friday, June 07, 2002 2:38 PM
Subject: Read This? Wanted: 75A4 Manual Copy

> Jack Sez my postings will still go through--they will just be ugly. Is he
> right? Can you read this?

>

> WANTED: 75A4 Manual copy. Pay cash or trade copy of a manual that you
need.

>

> 73, Don Merz, N3RHT

> *****

> DISCLAIMER: The information contained in this e-mail may be confidential
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copying

> or re-use of the e-mail or any information contained therein by any other
> person is not authorized. If you are not the intended recipient please
> notify us immediately by returning the e-mail to the originator.

>

Message-ID: <3D0167A9.153E27C8@toad.net>
Date: Fri, 07 Jun 2002 22:10:49 -0400

From: RAY <w2kbr@toad.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: NC-140 Schematic
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anybody got a copy? Please reply direct..thanks

73 Ray

--

Ray A. Allen, Sr., W2KBR
8303 Grainfield Rd.,
Severn, Maryland, 21144-2331

Message-ID: <000a01c20ea0\$cfdae2a0\$6900a8c0@radioroom>
From: "Joe Watson" <wwatson@mmcable.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Earlier Post
Date: Fri, 7 Jun 2002 22:58:56 -0500
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_000_0007_01C20E76.E6C316B0"

This is a multi-part message in MIME format.

-----=_NextPart_000_0007_01C20E76.E6C316B0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Additional info re my earlier post---The RAL--8 CMX 46156-A radio =
compass receiver tune from 0.3 to 2.3 MC.

Joe
W5WBR

-----=_NextPart_000_0007_01C20E76.E6C316B0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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-----=_NextPart_000_0007_01C20E76.E6C316B0--

From: "Shirli Sieb" <sieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Read This? Wanted: 75A4 Manual Copy
Date: Sat, 8 Jun 2002 11:12:22 -0400
Message-ID: <LOBBJHOL00HLIPLONIAFIEGFFDAA.sieb@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

On Friday, June 07, 2002 3:38 PM, Merz Donald S wrote:

> Jack Sez my postings will still go through--they will just be ugly.
> Is he right? Can you read this?

Looks good here Don. UR Q5, and a good solid S-9 plus.
A little QRM from some Russian spammers, and some buck-shot
from a brightly colored HTML item in the in-basket, but FB HR OM!

Ed, VA3ES

Message-Id: <v03007802b92806cf7d84@[216.175.97.219]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 8 Jun 2002 12:34:54 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: Projects on Workbench

Folks,

Last weekend I cleaned up and did minor repairs on a Hewlett-Packard 8050A
1/3-octave audio spectrum analyzer that I had been given. This unit was
made by HP Germany in about 1970. If you like replacing parts, don't get
HP stuff because it won't give you many excuses to solder. I found one
out-of-tolerance 1 Meg resistor that prevented the 200V power supply from
being adjusted to its correct value, and that was it for bad parts. The CRT
is dim, but it's a special purpose rectangular one and I have little hope

of finding a replacement. Fortunately, removing the dark filter from in front of it was sufficient to get a satisfactory trace.

The BC-448 is now finished except for possible audio mods and upstairs near the antenna terminal in the living room. BBC, Radio Nederland, and Radio Deutsche Welle all come in quite nicely. Lovely tuning action, too. The slow radio tempts me to try to add a motor tuning drive, but as that's a lot of work it will not happen, so those of you who are originality freaks can relax.

I also cleaned up and aligned a beautiful Bang & Olufsen FM only sand state portable. It's very elegant looking, black case and all external slider controls on the top. Very nice mechanical design, easy to take apart and good access once inside. Battery box is where it belongs at the bottom rather than at the top as it Sony CRF-150, where the goo dripped internally all over the IF circuit board.

In the queue and 90% done is a circa 1940 German or Dutch made Philips large table radio, model 752A. This one is distinctive in that it has a "monoknob" control. The knob is a sort of joystick; turn to tune, up/down for volume, and sideways for tone. Bandswitch and bandwidth control/phono input selector are separate switches as is the power switch. Pity none of the schematics I have match the radio exactly...It's all ready to go, except the d*rn RF amp oscillates at the top end of the SW band. The only cause left seems to be poor contact in the wiper that grounds the tuning cap shaft between the sections. I need to get this one out of the way, since it occupies the only remaining horizontal surface in the garage, the top of the washing machine.

I just finished the SX-42 a couple of months ago. I need to revisit the 5-15 MHz band alignment as the factory procedure gives poor dial accuracy expect at the two alignment points. I think I checked that the Lo was on the right side (high) of the signal.

Also, does anyone have a first and particularly second IF can for this RX that they would like to sell me? I have replaced the internal micas, but the second one in particular still does not have enough Q to get the variable bandwidth feature to work correctly.

At this point, I ought to take a break from the radios and get some motorcycles working. The Golden Gate bridge is threatening to raise the toll to \$5, and bikes count as car pools at commute time. Five bucks a day adds up!

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Message-ID: <004d01c20f26\$d9413b60\$d81145cf@default>
From: "David L. Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: S-72 handle again
Date: Sat, 8 Jun 2002 15:58:22 -0400

I ordered a handle from Antique Electronic Supply but again am requesting any help in getting a similar handle for the S-72. The one I have is in three pieces and its not really leather so not sure I can repair it. The AES handle is made for a guitar case so will probably look out of place on the S-72.

Anyone who has repaired or replaced the handle send me a private e-mail. I want to restore the little receiver to as close to original as possible.

I am also looking for the battery cable that is wired into the chassis. Mine only has the chassis hole but the wire and battery connection on the end are missing. I might even consider a junker if the strap handle and battery cable are still there,

73 Dave K4JRB

Date: Sat, 8 Jun 2002 15:49:50 -0500 (CDT)
From: Bob Roehrig <broehrig@aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: scope repair needed
Message-ID: <Pine.OSF.4.43.0206081548140.61131-100000@mail.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am looking for someone to repair a Tektronix SC-502 scope. I don't have a manual or a way to power it up outside of the rack.

tnx

73 Bob Roehrig K9EUI
Aurora University Telecom/IS dept.
630-844-4898 broehrig@aurora.edu

Message-Id: <5.1.0.14.0.20020608165918.00b1d008@mail.attbi.com>
Date: Sat, 08 Jun 2002 17:00:48 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Chuck McGregor <cbmcg@attbi.com>
Subject: Boatanchor potentiometer
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Would anyone who has experience using/repairing high current carbon pile rheostats please contact me offline ?

Thanks,

Chuck N7RHU

Message-ID: <3D02C577.872D2827@easystreet.com>
Date: Sat, 08 Jun 2002 20:03:19 -0700
From: Liles and Naomi Garcia <landn@easystreet.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Help and Advice on Stoddard NM-5A Analyzer
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good evening Everybody,

I was at a garage sale this weekend and I saw a Stoddard NM-5A (not dead sure of this name, but this is close). It is a two chassis instrument with a black wrinkle finish (my favorite type). Many years ago Stoddard made " Noise and Field Intensity Meters " I guess for many frequencies and bands from DC to microwaves. The frequency range of this unit is from 88 MHz to 400 MHz, and I am positive of the frequency range.

Someone on our list mentioned one of these types of instruments a short time ago, and mentioned that they make great receivers. Would this NM-5A fall into the category of being a great receiver? Would this instrument detect FM because 88 MHz is the beginning of the FM broadcast band, and at a minimum I could receive the FM band with it. It also should receive the airplane communication bands with its frequency coverage. Please do not go to a lot of effort at this point. Right now, I just need the basic information on this instrument to decide if I should buy it or not. Thanks in advance for any help you all can give me.

Regards from Aloha, Oregon,
Liles Garcia
landn@easystreet.com

Message-ID: <00a401c20f69\$be7708d0\$6182b4ce@tsmith>
From: "Tom Smith" <tsmith@hal-pc.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted: Mackay 128-A manual/schematic
Date: Sat, 8 Jun 2002 20:57:15 -0700
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_00A1_01C20F2F.1194D000"

This is a multi-part message in MIME format.

-----=_NextPart_000_00A1_01C20F2F.1194D000
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi Group,
I have just recapped/restored a Mackay 128-A regen receiver. Apparently =
there was a zillion of them used by the Merchant Marines et al as a back =
up receiver. Works great using a 8' diameter shielded loop. Anyway with =
a zillion of them out there, it mystifies me why I can't find a manual =
or schematic available. I've checked on Bama and the usual sources. =
Does anyone either have one or know where I can purchase a copy?

Thanks and have a nice weekend,

Tom N5AMA

-----=_NextPart_000_00A1_01C20F2F.1194D000
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
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-----=_NextPart_000_00A1_01C20F2F.1194D000--

To: Old Tube Radios <boatanchors@theporch.com>
Date: Sun, 9 Jun 2002 11:52:02 -0400
Subject: Long-term BA storage: how not to do it
Message-ID: <20020609.115203.4128.1.k4pf@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: Edward J Knobloch <k4pf@juno.com>

Hi, Gang

I got a phone call from an old ham friend who had quite a tale of boat anchor disaster. He had stored his gear for the last ten years, and now finally unwrapped it....

First, let me tell you how he packaged his stuff -
It was to be stored in a dirt-floored garage in San Francisco, so he knew he had to battle moisture. He bought large amounts of silica gel, packed in plastic tubes, as sold for preparation of dry flowers.
In the end of the tubes he placed sponges, so the gel would stay in the tube,
yet the gel would be able to draw moisture from the air within the storage bag.
The gel tubes were placed with the radio gear in green plastic garbage bags,
the end of each bag was twisted and then tiwrapped.

Ten years later, he opened the bags, and a quart of water came pouring out of each one. His equipment was covered with green fuzz, a total loss.

After carting the HQ-145C and various Heathkit goodies to the dump, and watching a bulldozer run over it, he gave me a call. He finally figured out
that the garbage bags were not vapor proof, and the silica gel tubes had drawn in moisture until they were saturated. After that, every temperature drop would result in moisture being returned to the interior of the garbage bag. He had created
a boatanchor rain forest.

73,
Ed Knobloch k4pf@juno.com

Message-ID: <00c301c20fd2\$45c9d840\$166656d1@default>
From: "David L. Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>

Subject: S-72 Thanks

Date: Sun, 9 Jun 2002 12:24:46 -0400

Thanks for all the tips on getting a new handle for the S-72. I have one on the way and several good suggestions if this does not work out.

I still am looking for the original battery cable and connector to fully restore the little RX.

73 Dave K4JRB

To: Old Tube Radios <boatanchors@theporch.com>

Date: Sun, 9 Jun 2002 12:40:31 -0400

Subject: Stoddart Power Cable

Message-ID: <20020609.124034.-377213.0.K4LJH@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

From: Charles T Preston <k4ljh@juno.com>

Hi Group, I have the following item for sale.

4 Conductor interconnecting power cable for Stoddart receivers
NM-20, NM-30, and others. 10 feet long w/ MS connectors.

\$ 20.00 and I will ship CONUS. Thanks K4LJH

Charles Preston Hamilton, Va.

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<http://dl.www.juno.com/get/web/>.

Message-Id: <200206091815.g59IF09D019615@osr506.nanniandjack.com>

From: listtown@nanniandjack.com (Mail List Owner)

To: Old Tube Radios <boatanchors@theporch.com>

Subject: ADMINISTRIVIA: No More Reposts

Date: Sun, 9 Jun 2002 11:15:00 -0700 (PDT)

Gang-

This is a reminder that reposting of For Sale or Wanted items from other internet sources (lists and auctions) is discouraged....
may prohibited on the BoatAnchors list.

If a BA list member wants to post the item elsewhere and on the BA list, that creates NO problem. What we are trying to avoid are "seen on EBay"

or "prime rig on xxx list" type posts... Very few BA members limit their searching to just the BA list!

The problem comes when the poster in the other venue is not asked about the re-post... without the permission of the poster, problems are guaranteed, and I do not have the time, the energy, or the desire to address and deal with the headaches that re-posting causes... I'll grant you that folks in other venues need to be re-calibrated, but I do NOT want to referee! ;^)

So, henceforth, let's have NO re-posts from other sources referred to the list. Yes, I know this may sound pretty provincial, but those who really care have browsers and know where to look, and those who don't, probably don't....

I do NOT need the aggravation of someone who posts to a newsgroup and then has to fight off the hungry folks from the BA list who want to rearrange his viewpoint or calibrate his selling technique.

ENOUGH! Already... Just don't do it!

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -
listown@nanniandjack.com - "Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"
Sun Jun 9 11:15:00 PDT 2002

Message-ID: <3D03CC25.62FCF585@bayserve.net>
Date: Sun, 09 Jun 2002 17:44:05 -0400
From: RAY <w2kbr@bayserve.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: NC-140
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Looking for a schematic for the above radio..anybody???
Please reply direct...thanks

--

Ray A. Allen, Sr., W2KBR
8303 Grainfield Rd.,
Severn, Maryland, 21144-2331

Date: Sun, 9 Jun 2002 18:50:17 -0700 (PDT)

From: John Kolb <jlkolb@cts.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Do you Have Any Projects on the Bench?
Message-ID: <Pine.BSF.4.44.0206091839190.12203-100000@king.cts.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 6 Jun 2002, Tarheel6 wrote:

> Hi Gary...
> Coupla things: After reading the other emails about how cluttered up with
> radio's their benches are, I can now quit the intensive psycho-therapy I've
> been going thru for the last 2 years to rid myself of the guilt I've felt
> from all the nearly done, half-done, just-started, about-to-be-started, and
> thinking-about-getting-started projects that stare at me every day and shout
> at me as I rush by hoping that they won't notice that I didn't stop to work
> on THEIR project. Whew what a relief. There are A LOT of people out
> there who are in the same shape I'm in. So ... pretty much I'm concluding
> that I'm normal. That messy workbenches full of unfinished projects are
> NORMAL. This is great!

Tom said it well - glad I'm not the only one can't even see the
bency from the varity of started projects and unsorted parts.

Mostly working on test equipment lately, repaired several Tek
scopes, and just completed a Knight R and C bridge - beautiful
6E5 magic eye tube in it, that's probably worth more than
the completed bridge. These would seem to be a good source
of magic eye tubes for restoring old radios, as most RC
bridges would have very few hours of operation on them.

Completed a test set for mechanical filters.

Enough radios around here needing overhaul to last me the
rest of my life - R-390A, R-648/ARR41, HQ-180A, 51J-3, R-1051,
R-1449/WLR-6, URC-35A.

John

Date: Sun, 9 Jun 2002 23:21:49 -0700 (PDT)
From: John Kolb <jlkolb@cts.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>, <jlkolb@cts.com>
Subject: RE: Do you Have Any Projects on the Bench?
Message-ID: <Pine.BSF.4.44.0206092241460.38838-100000@king.cts.com>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 9 Jun 2002, Don Reaves W5OR wrote:

> John,
> Tell us about the mechanical filter test set. I've been thinking there must
> be a good way to test these things besides soldering them in a receiver.
>

I've been testing filters for years using a HP 3590A wave analyzer, with a VideoSpectra DDS signal generator feeding the external LO input to provide a stable, small step size signal source, and using a HP5245 freq counter to conveniently display the freq and add a touch of tubes, well, nixie tubes at least, to the setup. The problem has always been that the generator has an output Z of 50 ohms or so and an input Z of 50K, neither a good match for the filters. My recent addition was a set of boxes to match the filter input and output Z to the test set. The shielded box from the generator output to the filter has a series 100K resistor, and a 420 pF variable to tune the filter coil, with BNC's in and out. The filter output goes to another shielded box with another 420 pF variable and a 100K resistor to ground, and a FET preamp to not load down the filter while driving the HP3290 input. This box again has BNC's in and out. Currently using BNC to test clip leads to connect to the filters. I still need to place a dial on the boxes marked in pF to represent the variable C setting - currently peaking, and measuring the resulting C with a C-meter after the measurements are complete.

Next refinement will be to make a box with connectors to plug "FA" or "V" case filters into. R-390A "N" case or the smaller cylindrical "Y" case filters will continue to use test clips.

Testing is done by tuning across the filter bandwidth to find the peak, tuning the C's for max reading, and setting that as 0 db. Then I tune the DDS generator by pushing the up and down arrows recording level and freq of each min and max peak in the passband, and -3, -6, -10, -20 ... -60, ect point on the skirts. I enter these numbers into Excel and let it draw a plot.

This setup is mainly for the older filters with 100K in and out Z. The boxes will need minor changes for the more modern, lower Z filters.

In the past, I've tried using series resistors and fixed or variable C's connected with clip leads to match the filter Z, but had so much leakage around the filter that the variable C didn't make much difference. With everything properly shielded, I find the variable C's make a large difference, and probably would never again put a filter into a rx with only the recommended fixed value termination caps, but would try to have R390A style adjustable C's.

PLUG: Have a number of eBay filters arriving soon, so expect to have a revised list of filters for sale soon. e-mail for updated list if in the market for a filter.

John

Message-ID: <42ECC21B33DFF245BAFAF57274BA5CE50D97EC@stpmse04.ad.guidant.com>
From: "Freeberg, Scott (STP)" <Scott.Freeberg@guidant.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: on Microphones
Date: Mon, 10 Jun 2002 09:34:06 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

A local fellow put his 'new' Collins KW-1 on the air for a test drive and had an equalizer hooked up. It was interesting listening to him fidget with the equalizer because in the course of 5 minutes I heard that KW-1 sound like many other BA rigs including the scratchy Apache :) as he was going through the frequency setup. Hmmmm, maybe I can use an equalizer to make my Johnson Valiant sounds like a KW-1 :^)

73, Scott WA9WFA

End of BOATANCHORS Digest 3348
